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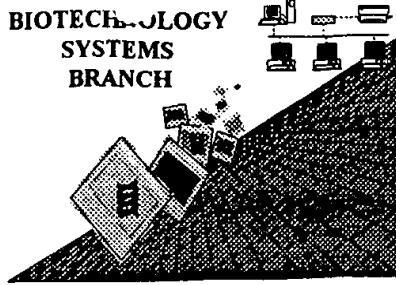
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M. Rao

## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/262,126B  
Source: 1600 ReSH  
Date Processed by STIC: 2/22/2001

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**

**<http://www.uspto.gov/web/offices/pac/checker>**

1600

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/262,126B

DATE: 02/22/2001  
TIME: 12:09:01

Input Set : A:\GC396-2 seq.txt  
Output Set: N:\CRF3\02222001\I262126B.raw

pr 1-2,5

Does Not Comply  
Corrected Diskette Needed

same error as  
previous submission

3 <110> APPLICANT: Miller, Brian S.  
4 Shetty, Jayarama K.  
6 <120> TITLE OF INVENTION: Modified Forms of Pullulanase  
9 <130> FILE REFERENCE: GC396-2  
11 <140> CURRENT APPLICATION NUMBER: 09/262,126B  
12 <141> CURRENT FILING DATE: 1999-03-03  
14 <160> NUMBER OF SEQ ID NOS: 9  
16 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
18 <210> SEQ ID NO: 1  
19 <211> LENGTH: 2794  
20 <212> TYPE: DNA  
21 <213> ORGANISM: B. deramificans → 12207 <insert this MANDATORY  
23 <221> NAME/KEY: misc\_feature  
24 <222> LOCATION: (1)...(2794)  
25 <223> OTHER INFORMATION: n = A, T, C, or G  
27 <400> SEQUENCE: 1  
28 gatggaaaca cgacaacgat cattgtccac tatttttgc ctgctggta ttatcaacct 60  
29 tggagtctat ggatgtggcc aaaagacgga ggtggggctg aatacgattt caatcaacccg 120  
30 gctgactt ttggagctgt tgcaagtgt gatattccag gaaaccagg tcaggttagga 180  
31 attatcggtt gcaactcaaga ttggacaaa gatgtgagcg ctgaccgcta catagattta 240  
32 agcaaaggaa atgagggtgtg gcttgtagaa gaaaaacagcc aaattttta taatgaaaaa 300  
33 gatgctgagg atgcagctaa acccgctgtt agcaacgctt atttagatgc ttcaaaccagg 360  
34 gtgctggta aacttagcca gccgttaact cttggggaa gnnnaagcgg ctttacggtt 420  
35 catgacgaca cagcaaataa ggatattcca gtgacatctg tgaaggatgc aagtcttgg 480  
36 caagatgtaa ccgcgtttt ggcagggtacc ttccaaacata tttttggagg ttccgattgg 540  
37 gcacctgata atcacagtag tttattaaaa aaggtgacta acaatctcta tcaattctca 600  
38 ggagatcttc ctgaaggaaa ctaccaatat aaagtggctt taaatgatag ctgaaataat 660  
39 ccgagttacc catotgacaa cattaattta acagtcctgtt ccggcggtgc acacgtcact 720  
40 tttcgtata ttccgtccac tcatgcgtc tatgacacaa ttaataatcc taatgcggat 780  
41 ttacaagttag aaagcgggggt taaaacggat ctcgtgacgg ttactcttagg ggaagatcca 840  
42 gatgtgagcc atactctgtc cattcaaaca gatggctatc aggcaaaagca ggtgataacct 900  
43 cgtaatgtgc ttaatttcatc acagttactac tattcaggag atgatcttgg gaataacctat 960  
44 acacagaaag caacaacccct taaagtctgg gcaccaactt ctactcaagt aaatgttctt 1020  
45 ctttatgaca gtgcaacggg ttctgtaaaca aaaatcgatct ctatgcggc atcggggccat 1080  
46 ggtgtgtggg aagcaacgggt taatcaaaaac cttggaaaatt ggtattacat gtatgaggt 1140  
47 acaggccaaag gctctaccgg aacggctgtt gatcctttagt caactgcgt tgccaccaat 1200  
48 ggaacgagag gcatgattgt ggacccgtt aaaaacagatc ctgctggctt gaacagtgtat 1260  
49 aaacatatta cggccaaagaa tatagaagat gaggttcatct atgaaatggg tgccgtgac 1320  
50 ttttccattt accctaattt gggatgaaa aataaaaggaa agtattttggc tcttacagaa 1380  
51 aaaggaacaa agggccctga caacgtttaaag acggggatag attccttaaa acaacttggg 1440  
52 attactcatg ttcatgttttgc gcatcttaca gtttcgtatgaa aactgtatcc 1500  
53 acccaagata attgggggtt tgaccctcgc aactatgtatg ttccctgaagg gcagttatgt 1560  
54 acaaattgcga atggtaatgc tcgtttaaaa gagttttagg aatgggtctt ttcaactccat 1620  
55 cgtgaacaca ttgggggttaa catggatgtt gtcttataatc ataccttgc cacgcaaattc 1680  
56 tctgacttcg ataaaattgt accagaatattattaccgtt cgatgtatcc ggttattata 1740  
57 ccaacggatc aggtacttgg aatgaaattt cangcngaaa ggccaatggt tcaaaaattt 1800  
58 attattgttcccttaagta ttgggtcaat gagttatcata ttgacggctt ccgttttgac 1860

OK

→ 12207 <insert this MANDATORY  
newer identifier  
wherever

12217, 12227,  
or 12237 is  
shown.

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/262,126B

DATE: 02/22/2001  
TIME: 12:09:01

Input Set : A:\GC396-2 seq.txt  
Output Set: N:\CRF3\02222001\I262126B.raw

59	ttaatggcgc	tgcttggaaa	agacacgatg	tccaaagctg	cctcgaggct	tcatgctatt	1920
60	aatccaggaa	ttgcacttta	cggtgagcca	tggacgggtg	gaacctctgc	actgccagat	1980
61	gatcagcttc	tgacaaaagg	agctaaaaaa	ggcatggag	tagcggtgtt	taatgacaat	2040
62	ttacgaaacg	cgttggacgg	caatgtctt	gattcttccc	ctcaagggtt	tgcacaggt	2100
63	gcaacaggct	taactgtatgc	aattaagaat	ggcgttgagg	ggagtattaa	tgactttacc	2160
64	tcttcaccag	gtgagacaat	taactatgtc	acaagtcatg	ataactacac	ccttgggac	2220
65	aaaatagccc	taagcaatcc	taatgattcc	gaagcggatc	ggattaaaat	ggatgaactc	2280
66	gcacaaggcag	ttgttatgac	ctcacaaggc	gttccattca	tgcaaggcgg	ggaagaaaatg	2340
67	cttcgtanaa	aaggcggcaa	cgacaatagt	tataatgcag	gcgatgcgg	caatgagttt	2400
68	gattggagca	ggaaagctca	atatccagat	gttttcaact	attatagegg	gctaataccac	2460
69	cttcgtcttg	atcacccagc	cttccgcatg	acgacagcta	atgaaatcaa	tagccacctc	2520
70	caattcccaa	atagtccaga	gaacacagtg	gccttatgaat	taactgatca	tgttaataaa	2580
71	gacaaatggg	gaaatatcat	tgttgttat	aacccaaata	aaactgttagc	aaccatcaat	2640
72	ttgcccggcgc	gyaaatgggc	aatcaatgct	acgagcggta	aggtaggaga	atccaccctt	2700
73	ggtaaagcag	agggaaagtgt	ccaagtagcca	gttatatcta	tgtatgatcct	tcatcaagag	2760
74	gtaagcccg	accacggtaa	aaagtaatag	aaaa			2794

76 <210> SEQ ID NO: 2

77 <211> LENGTH: 958

78 <212> TYPE: PRT

79 <213> ORGANISM: B. deramificans

81 <220> FEATURE:

82 <221> NAME/KEY: VARIANT

83 <222> LOCATION: (1)...(956)

84 <223> OTHER INFORMATION: Xaa = Any Amino Acid

86 <220> FEATURE:

87 <221> NAME/KEY: VARIANT

88 <222> LOCATION: (957)...(957)

89 <223> OTHER INFORMATION: Xaa = gap of indeterminate length

91 <400> SEQUENCE: 2

92	Met Ala Lys Leu Ile Tyr Val Cys Leu Ser Val Cys Leu Val Leu					
93	1	5	10	15		
94	Thr Trp Ala Phe Asn Val Lys Gly Gln Ser Ala His Ala Asp Gly Asn					
95	20	25	30			
96	Thr Thr Thr Ile Ile Val His Tyr Phe Cys Pro Ala Gly Asp Tyr Gln					
97	35	40	45			
98	Pro Trp Ser Leu Trp Met Trp Pro Lys Asp Gly Gly Gly Ala Glu Tyr					
99	50	55	60			
100	Asp Phe Asn Gln Pro Ala Asp Ser Phe Gly Ala Val Ala Ser Ala Asp					
101	65	70	75	80		
102	Ile Pro Gly Asn Pro Ser Gln Val Gly Ile Ile Val Arg Thr Gln Asp					
103	85	90	95			
104	Trp Thr Lys Asp Val Ser Ala Asp Arg Tyr Ile Asp Leu Ser Lys Gly					
105	100	105	110			
106	Asn Glu Val Trp Leu Val Glu Gly Asn Ser Gln Ile Phe Tyr Asn Glu					
107	115	120	125			
108	Lys Asp Ala Glu Asp Ala Ala Lys Pro Ala Val Ser Asn Ala Tyr Leu					
109	130	135	140			
110	Asp Ala Ser Asn Gln Val Leu Val Lys Leu Ser Gln Pro Leu Thr Leu					
111	145	150	155	160		

invalid

Xaa can only represent a single amino acid.

Per 1.822(d)(5)(e) of new sequence rules,

"A sequence with a gap or gaps shall be presented as a plurality of separate sequences..."

However, since only one amino acid

follows gap, and at least four

amino acids are needed for a sequence, delete last amino acid and adjust 2117 response to 957

see p. 5

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/262,126B

DATE: 02/22/2001

TIME: 12:09:01

Input Set : A:\GC396-2 seq.txt

Output Set: N:\CRF3\02222001\I262126B.raw

W--> 112 Gly Glu Gly Xaa Ser Gly Phe Thr Val His Asp Asp Asp Thr Ala Asn Lys  
 113 165 170 175  
 114 Asp Ile Pro Val Thr Ser Val Lys Asp Ala Ser Leu Gly Gln Asp Val  
 115 180 185 190  
 116 Thr Ala Val Leu Ala Gly Thr Phe Gln His Ile Phe Gly Gly Ser Asp  
 117 195 200 205  
 118 Trp Ala Pro Asp Asn His Ser Thr Leu Leu Lys Lys Val Thr Asn Asn  
 119 210 215 220  
 120 Leu Tyr Gln Phe Ser Gly Asp Leu Pro Glu Gly Asn Tyr Gln Tyr Lys  
 121 225 230 235 240  
 122 Val Ala Leu Asn Asp Ser Trp Asn Asn Ser Tyr Pro Ser Asp Asn Ile  
 123 245 250 255  
 124 Asn Leu Thr Val Pro Ala Gly Gly Ala His Val Thr Phe Ser Tyr Ile  
 125 260 265 270  
 126 Pro Ser Thr His Ala Val Tyr Asp Thr Ile Asn Asn Pro Asn Ala Asp  
 127 275 280 285  
 128 Leu Gln Val Glu Ser Gly Val Lys Thr Asp Leu Val Thr Val Thr Leu  
 129 290 295 300  
 130 Gly Glu Asp Pro Asp Val Ser His Thr Leu Ser Ile Gln Thr Asp Gly  
 131 305 310 315 320  
 132 Tyr Gln Ala Lys Gln Val Ile Pro Arg Asn Val Leu Asn Ser Ser Gln  
 133 325 330 335  
 134 Tyr Tyr Tyr Ser Gly Asp Asp Leu Gly Asn Thr Tyr Thr Gln Lys Ala  
 135 340 345 350  
 136 Thr Thr Phe Lys Val Trp Ala Pro Thr Ser Thr Gln Val Asn Val Leu  
 137 355 360 365  
 138 Leu Tyr Asp Ser Ala Thr Gly Ser Val Thr Lys Ile Val Pro Met Thr  
 139 370 375 380  
 140 Ala Ser Gly His Gly Val Trp Glu Ala Thr Val Asn Gln Asn Leu Glu  
 141 385 390 395 400  
 142 Asn Trp Tyr Tyr Met Tyr Glu Val Thr Gly Gln Gly Ser Thr Arg Thr  
 143 405 410 415  
 144 Ala Val Asp Pro Tyr Ala Thr Ala Ile Ala Pro Asn Gly Thr Arg Gly  
 145 420 425 430  
 146 Met Ile Val Asp Leu Ala Lys Thr Asp Pro Ala Gly Trp Asn Ser Asp  
 147 435 440 445  
 148 Lys His Ile Thr Pro Lys Asn Ile Glu Asp Glu Val Ile Tyr Glu Met  
 149 450 455 460  
 150 Asp Val Arg Asp Phe Ser Ile Asp Pro Asn Ser Gly Met Lys Asn Lys  
 151 465 470 475 480  
 152 Gly Lys Tyr Leu Ala Leu Thr Glu Lys Gly Thr Lys Gly Pro Asp Asn  
 153 485 490 495  
 154 Val Lys Thr Gly Ile Asp Ser Leu Lys Gln Leu Gly Ile Thr His Val  
 155 500 505 510  
 156 Gln Leu Met Pro Val Phe Ala Ser Asn Ser Val Asp Glu Thr Asp Pro  
 157 515 520 525  
 158 Thr Gln Asp Asn Trp Gly Tyr Asp Pro Arg Asn Tyr Asp Val Pro Glu  
 159 530 535 540  
 160 Gly Gln Tyr Ala Thr Asn Ala Asn Gly Asn Ala Arg Ile Lys Glu Phe

## RAW SEQUENCE LISTING

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TIME: 12:09:01

Input Set : A:\GC396-2 seq.txt

Output Set: N:\CRF3\02222001\I262126B.raw

161	545	550	555	560
162	Lys Glu Met Val Leu Ser Leu His Arg Glu His Ile Gly Val Asn Met			
163	565	570	575	
164	Asp Val Val Tyr Asn His Thr Phe Ala Thr Gln Ile Ser Asp Phe Asp			
165	580	585	590	
166	Lys Ile Val Pro Glu Tyr Tyr Arg Thr Met Ile Gln Val Ile Ile			
167	595	600	605	
W--> 168	Pro Thr Asp Gln Val Leu Glu Met Lys Leu Xaa Ala Glu Arg Pro Met			
169	610	615	620	
170	Val Gln Lys Phe Ile Ile Asp Ser Leu Lys Tyr Trp Val Asn Glu Tyr			
171	625	630	635	640
172	His Ile Asp Gly Phe Arg Phe Asp Leu Met Ala Leu Leu Gly Lys Asp			
173	645	650	655	
174	Thr Met Ser Lys Ala Ala Ser Glu Leu His Ala Ile Asn Pro Gly Ile			
175	660	665	670	
176	Ala Leu Tyr Gly Glu Pro Trp Thr Gly Gly Thr Ser Ala Leu Pro Asp			
177	675	680	685	
178	Asp Gln Leu Leu Thr Lys Gly Ala Gln Lys Gly Met Gly Val Ala Val			
179	690	695	700	
180	Phe Asn Asp Asn Leu Arg Asn Ala Leu Asp Gly Asn Val Phe Asp Ser			
181	705	710	715	720
182	Ser Ala Gln Gly Phe Ala Thr Gly Ala Thr Gly Leu Thr Asp Ala Ile			
183	725	730	735	
184	Lys Asn Gly Val Glu Gly Ser Ile Asn Asp Phe Thr Ser Ser Pro Gly			
185	740	745	750	
186	Glu Thr Ile Asn Tyr Val Thr Ser His Asp Asn Tyr Thr Leu Trp Asp			
187	755	760	765	
188	Lys Ile Ala Leu Ser Asn Pro Asn Asp Ser Glu Ala Asp Arg Ile Lys			
189	770	775	780	
190	Met Asp Glu Leu Ala Gln Ala Val Val Met Thr Ser Gln Gly Val Pro			
191	785	790	795	800
W--> 192	Phe Met Gln Gly Glu Glu Met Leu Arg Xaa Lys Gly Gly Asn Asp			
193	805	810	815	
194	Asn Ser Tyr Asn Ala Gly Asp Ala Val Asn Glu Phe Asp Trp Ser Arg			
195	820	825	830	
196	Lys Ala Gln Tyr Pro Asp Val Phe Asn Tyr Tyr Ser Gly Leu Ile His			
197	835	840	845	
198	Leu Arg Leu Asp His Pro Ala Phe Arg Met Thr Thr Ala Asn Glu Ile			
199	850	855	860	
200	Asn Ser His Leu Gln Phe Leu Asn Ser Pro Glu Asn Thr Val Ala Tyr			
201	865	870	875	880
202	Glu Leu Thr Asp His Val Asn Lys Asp Lys Trp Gly Asn Ile Ile Val			
203	885	890	895	
204	Val Tyr Asn Pro Asn Lys Thr Val Ala Thr Ile Asn Leu Pro Ser Gly			
205	900	905	910	
206	Lys Trp Ala Ile Asn Ala Thr Ser Gly Lys Val Gly Glu Ser Thr Leu			
207	915	920	925	
208	Gly Gln Ala Glu Gly Ser Val Gln Val Pro Gly Ile Ser Met Met Ile			
209	930	935	940	

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/262,126B

DATE: 02/22/2001

TIME: 12:09:01

Input Set : A:\GC396-2 seq.txt  
 Output Set: N:\CRF3\02222001\I262126B.raw

W--> 210 Leu His Gln Glu Val Ser Pro Asp His Gly Lys Lys Xaa Lys *delete*  
 211 945 950 955  
 213 <210> SEQ ID NO: 3  
 214 <211> LENGTH: 718  
 215 <212> TYPE: PRT  
 216 <213> ORGANISM: B. subtilis  
 218 <400> SEQUENCE: 3  
 219 Met Val Ser Ile Arg Arg Ser Phe Glu Ala Tyr Val Asp Asp Met Asn  
 220 1 5 10 15  
 221 Ile Ile Thr Val Leu Ile Pro Ala Glu Gln Lys Glu Ile Met Thr Pro  
 222 20 25 30  
 223 Pro Phe Arg Leu Glu Thr Glu Ile Thr Asp Phe Pro Leu Ala Val Arg  
 224 35 40 45  
 225 Glu Glu Tyr Ser Leu Glu Ala Lys Tyr Lys Tyr Val Cys Val Ser Asp  
 226 50 55 60  
 227 His Pro Val Thr Phe Gly Lys Ile His Cys Val Arg Ala Ser Ser Gly  
 228 65 70 75 80  
 229 His Lys Thr Asp Leu Gln Ile Gly Ala Val Ile Arg Thr Ala Ala Phe  
 230 85 90 95  
 231 Asp Asp Glu Phe Tyr Tyr Asp Gly Glu Leu Gly Ala Val Tyr Thr Ala  
 232 100 105 110  
 233 Asp His Thr Val Phe Lys Val Trp Ala Pro Ala Ala Thr Ser Ala Ala  
 234 115 120 125  
 235 Val Lys Leu Ser His Pro Asn Lys Ser Gly Arg Thr Phe Gln Met Thr  
 236 130 135 140  
 237 Arg Leu Glu Lys Gly Val Tyr Ala Val Thr Val Thr Gly Asp Leu His  
 238 145 150 155 160  
 239 Gly Tyr Glu Tyr Leu Phe Cys Ile Cys Asn Asn Ser Glu Trp Met Glu  
 240 165 170 175  
 241 Thr Val Asp Gln Tyr Ala Lys Ala Val Thr Val Asn Gly Glu Lys Gly  
 242 180 185 190  
 243 Val Val Leu Arg Pro Asp Gln Met Lys Trp Thr Ala Pro Leu Lys Pro  
 244 195 200 205  
 245 Phe Ser His Pro Val Asp Ala Val Ile Tyr Glu Thr His Leu Arg Asp  
 246 210 215 220  
 247 Phe Ser Ile His Glu Asn Ser Gly Met Ile Asn Lys Gly Lys Tyr Leu  
 248 225 230 235 240  
 249 Ala Leu Thr Glu Thr Asp Thr Gln Thr Ala Asn Gly Ser Ser Ser Gly  
 250 245 250 255  
 251 Leu Ala Tyr Val Lys Glu Leu Gly Val Thr His Val Glu Leu Leu Pro  
 252 260 265 270  
 253 Val Asn Asp Phe Ala Gly Val Asp Glu Glu Lys Pro Leu Asp Ala Tyr  
 254 275 280 285  
 255 Asn Trp Gly Tyr Asn Pro Leu His Phe Phe Ala Pro Glu Gly Ser Tyr  
 256 290 295 300  
 257 Ala Ser Asn Pro His Asp Pro Gln Thr Arg Lys Thr Glu Leu Lys Gln  
 258 305 310 315 320  
 259 Met Ile Asn Thr Leu His Gln His Gly Leu Arg Val Ile Leu Asp Val  
 260 325 330 335

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/262,126B

DATE: 02/22/2001  
TIME: 12:09:02

Input Set : A:\GC396-2 seq.txt  
Output Set: N:\CRF3\02222001\I262126B.raw

L:34 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1  
L:34 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1  
L:57 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1  
M:340 Repeated in SeqNo=1  
L:67 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1  
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2